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art, 6; commercial branches, 5; mathematics, 4; domestic science, 5; public speaking, 3; ancient languages, 2; mechanical drawing, 2; kindergarten, 2; Latin and English, 2; elocution and physical culture, 1; pediatrics, 1.

The groups for which women qualify are therefore, in order of frequency: English, music, modern language, domestic science and home economics. In natural science and mathematics they do not often rise above the rank of instructor.

The high per cent. of women teachers west of the Mississippi may be explained by saying that the west is less conservative than the east; that there are more coeducational institutions in the west; that the western schools were founded after women began to compete for college positions, while the majority of eastern schools were founded before this time. Lack of ample funds may also at times have dictated the choice of cheaper service.

The number and per cent. of women in the various schools is given on page 56.

C. H. HANDSCHIN

#### SCIENTIFIC NOTES AND NEWS

MR. ARTHUR D. LITTLE, of Boston, was elected president of the American Chemical Society at the Washington meeting.

PROFESSOR E. G. CONKLIN, of Princeton University, has been elected president of the American Society of Naturalists.

PROFESSOR ROSS G. HARRISON, of Yale University, was elected for the coming two years president of the American Association of Anatomists at the recent Princeton meeting.

DR. S. J. MELTZER, of the Rockefeller Institute for Medical Research, has been reelected president of the American Physiological Society.

THE Academy of Natural Sciences of Philadelphia has awarded the Hayden Medal in gold for distinguished work in geology to Professor John C. Branner, of Leland Stanford Jr. University.

PRESIDENT TAFT has nominated Dr. Rupert Blue, of South Carolina, as surgeon general of the public health and marine hospital service,

succeeding the late Dr. Walter Wyman. President Taft gave notice that hereafter the term of service of the surgeon general of the public health service shall be limited to four years.

M. HENRI BERGSON, professor of philosophy at the Collège de France, has been appointed visiting French professor of Columbia University for the year 1913. M. Bergson has also been appointed Gifford lecturer at Edinburgh.

THE organ of the Japan Peace Society gives an account of the visit of Dr. David Starr Jordan, president of Stanford University, in August, September and October, of last year, undertaken under the auspices of the Japan and American Peace Societies. Dr. Jordan gave a large number of addresses, mainly on peace and arbitration, at Tokyo, Yokohama, Sendai, Nagoya, Okayama and Osaka. At Tokyo between September 13 and 18, Dr. Jordan gave as many as ten addresses, not including after-dinner speeches.

DR. W. A. CANNON, of the Desert Laboratory, is acting director of the Department of Botanical Research of the Carnegie Institution during the absence of Dr. D. T. MacDougal, who is traveling and studying desert conditions in Upper Egypt and portions of the Soudan.

MR. MYRON L. FULLER, for many years a geologist on the United States Geological Survey and chief of the Eastern Section of the Division of Hydrology from 1903-07, has formed an association with Mr. Frederick G. Clapp, also formerly of the Geological Survey, to act as consulting experts in all branches of geological engineering, especially in water supplies, bridge and dam foundations, ore deposits, oil and gas.

THE *Strand Magazine* has obtained a vote to determine the ten greatest men now living. The speaker of the house of commons drew up a list of eighteen men and other distinguished men voted for names by reduction and substitution. The final list in the order of the number of votes was: Edison, Kipling, Roosevelt, Marconi, Lister, Chamberlain, Roberts, William II., Metchnikoff.

DR. A. D. IMMS, professor of biology, University of Allahabad, has been appointed forest zoologist to the government of India.

A REUTER'S telegram states that Dr. Kinghorn, who is at present in Northwestern Rhodesia, has transmitted the *Trypanosoma rhodesiense* by means of *Glossina morsitans*.

AT a meeting of the Pellagra Investigation Committee on December 12, in London, Dr. Louis Sambon and Dr. A. J. Chalmers gave an account of the work of the Field Commission on Pellagra, from which they have just returned. The commission visited Hungary, Roumania, the Austrian Tyrol, North Italy and Spain, examining the districts in the several countries where pellagra prevails.

DR. WILLIS RODNEY WHITNEY, director of the research laboratory of the General Electric Company, lectured before the Middletown Scientific Association on January 9, his subject being "Research Laboratory Notes."

PROFESSOR G. F. SWAIN, of Harvard University, has returned to Cambridge from a trip to the middle west, where he gave the annual Sigma Xi lectures at the University of Kansas, the University of Missouri and Washington University.

AT the recent meeting of the American Physiological Society in Baltimore Dr. W. B. Cannon, of the Harvard Medical School, delivered a memorial address on the late Professor Henry Pickering Bowditch.

MAJOR CLARENCE EDWARD DUTTON, U.S.A., retired, distinguished for his services in the civil war and later in the ordnance corps of the army and eminent for his contributions on volcanoes and earthquakes, died on January 4 at his home in Englewood, N. J., aged seventy years.

DR. ARTHUR V. MEIGS, of the third generation of a family of noted physicians and surgeons, and widely known as a physician and author of medical works, died on December 31 at his home in Philadelphia, at the age of sixty-one years.

MR. GEORGE R. M. MURRAY, F.R.S., for many years on the staff of the department of

botany of the British Museum, known for his contributions on fungæ and algæ, died on December 15, aged fifty-three years.

M. PAUL TOPINARD, the distinguished French anthropologist, has died at the age of eighty-one years.

M. RADAU, member of the astronomical section of the Paris Academy of Sciences, has died at the age of seventy-seven years.

PROFESSOR ODILON MARC LANNELONGUE, the celebrated pathologist and surgeon, died in Paris on December 22, at the age of sixty-one years. At the time of his death he was president of the Paris Academy of Medicine and a member of the French parliament.

THE third annual meeting of the Paleontological Society was held at the new National Museum building, December 28-30, 1911, with 59 of its 136 members present. The results of the election of officers for the society for 1912 were as follows:

*President*—David White, Washington, D. C.

*First Vice-president*—J. C. Merriam, Berkeley, Cal.

*Second Vice-president*—Rudolf Ruedemann, Albany, N. Y.

*Third Vice-president*—E. W. Berry, Baltimore, Md.

*Secretary*—R. S. Bassler, Washington, D. C.

*Treasurer*—Richard S. Lull, New Haven, Conn.

*Editor*—Charles R. Eastman, Cambridge, Mass.

THE American Society for Pharmacology and Experimental Therapeutics held its third annual meeting in the Pharmacological Laboratory of the Johns Hopkins University, December 27 and 28. Thirty-one papers and demonstrations were presented and discussed. On the afternoon of the 27th there was a joint meeting with the American Physiological Society. Dr. J. J. Abel was reelected president and Dr. John Auer was elected secretary. The following new members were elected: T. S. Githens, of the Rockefeller Institute; Y. Henderson, of the Yale Medical School; D. R. Hooker, of the Johns Hopkins Medical School; L. Nelson, of the Harvard Medical School; J. D. Pilcher, of the Western Reserve University Medical School, and G. B. Roth, of the University of Michigan.

THE seventeenth meeting of the Association of Teachers of Mathematics for the Middle States and Maryland was held at Columbia University on Saturday morning and afternoon, December 2. The morning program consisted of the following papers: (1) "An Allegation applied to the Calculations of Analytical and Industrial Chemistry," by W. A. Ballou, Pratt Institute; (2) "What Subjects in the High School Mathematics are of Greatest Use in Preparation for Analytical Geometry and Calculus in College," by W. J. Babb, of the University of Pennsylvania, and A. S. Gale, of the University of Rochester. In the afternoon the program consisted of (1) "Educational Values in Mathematical Instruction," by H. E. Hanks, of Columbia University; (2) "Provisional Report of the National Geometry Committee of Fifteen," by Howard F. Hart, of the Montclair High School. The following officers were elected:

*President*—I. J. Schwatt, University of Pennsylvania.

*Vice-president*—A. E. King, Erasmus Hall High School, Brooklyn.

*Secretary*—H. F. Hart, Montclair High School, Montclair, N. J.

*Treasurer*—Susan C. Lodge, Philadelphia Collegiate Institute, Philadelphia.

*Council Members*—A. S. Gale, University of Rochester, Rochester; J. T. Rowe, Wm. Penn High School, Philadelphia; Harry English, Division of High School Mathematics, Washington.

THE first annual dinner of the Edinburgh University Club of North America, was held on December 27, at the University Club in the City of New York. Professor Clarence Webster, Chicago, the president of the club, occupied the chair, and about sixty alumni of Edinburgh University were present. Congratulations upon the birth of the club were received from the chancellor of the university, the Right Hon. Arthur J. Balfour, M.P., from Principal Sir William Turner, K.C.B., from the last lord rector, Lord Haldane, of Cluan, from the university parliamentary representative Sir Robert Baunatyne Finlay, from Sir Alexander R. Simpson, Dr. George A. Gibson and others. The Hon. Joseph H. Choate, LL.D., Edin., discoursed eloquently

upon "Our Alma Mater"; the Right Rev. Frederick Bishop Courtney, upon "Scottish Character"; Professor Prince, Ottawa, Canadian Commissioner of Fisheries, upon "United States" and Sir James Grant, Ottawa, upon "Canada." The club bard, Mr. Robert Easton, charmed every one with his rendering of Scotch songs. Great enthusiasm prevailed. The first function of the club was a marked success. Graduates and undergraduates of the university are eligible for full membership of the club. Fellows and licentiates of the Royal Colleges and post-graduate students of Edinburgh University may, as associate members, attend the annual dinners. Any who are interested are invited to communicate with the secretary, Edinburgh University Club, 20 East Sixty-ninth St., New York City.

WE learn from the *British Medical Journal* that on December 6 a dinner was given to welcome Professor Newstead on his return from the sleeping sickness expedition to Nyasaland and to wish godspeed to Dr. Harald Seidelin on his departure on a yellow fever expedition to Yucatan. Owing to having contracted a chill, Professor Newstead was unable to be present. Sir William H. Lever, who was in the chair, in proposing the toasts of the evening, remarked that the trustees of Sir Alfred Jones had intimated that they would come to the assistance of the school, and, in addition to better accommodation in Liverpool, it was proposed to establish a laboratory on the West Coast of Africa, where investigations into tropical diseases might be made on the spot. The government had given support to their movement, but he considered it was not adequate, and he echoed Sir Owen Phillips's opinion that it should grant to the London and Liverpool Schools £10,000 annually. If America had succeeded in making the Panama zone healthy, there was no reason why they should not, with adequate financial support, make West Africa sanitary.

A MEETING of the trustees of the Beit Memorial Fellowships for Medical Research was held on Tuesday, December 19, when ten fellows were elected. Each fellowship is of the

annual value of £250. The usual tenure is for three years, but the trustees have power in exceptional cases to grant an extension for one year.

#### UNIVERSITY AND EDUCATIONAL NEWS

MR. JACOB H. SCHIFF has given \$100,000 to Cornell University to promote studies in German culture.

THE million dollar fund for the further endowment of the Medical School of Western Reserve University has been completed.

DE PAUW UNIVERSITY has just brought to a successful close the campaign to raise \$400,000 to meet the conditional gift of \$100,000 from the Rockefeller Educational Board. The subscriptions total a little more than \$440,000. This will make the productive endowment of the university something above \$1,000,000.

ON December 13 an anonymous gift of £30,000 was made to the University of London, to be devoted to the erection at University College of the buildings for the new school of architecture, resulting from the amalgamation of the architectural department of University College and King's College. Any balance is to be used for providing studios for the teaching of sculpture and the rearrangement of the school of fine art and for the department of applied statistics, including the laboratory of eugenics.

THE Supreme Court of Illinois, on the final day of its fall term, failed to hand down a decision in the case involving the validity of the appropriation made by the legislature for the Medical School of the University of Illinois.

FOLLOWING the custom of recent years, the United States government has sent officers of the army and navy to the Massachusetts Institute of Technology to receive instruction in electrical engineering. These are in addition to the graduates of the Naval Academy who are sent to take a course in naval architecture. This year the Naval Academy is represented by Ensign G. K. Calhoun, who was graduated from Annapolis in 1908. He has recently been stationed at the United States Naval

Observatory at Washington where he has done considerable original work in wireless telegraphy, ship propulsion, gyroscopic compasses and chronometers. The army is represented by Captain Edward Canfield, West Point, 1901, and First Lieutenant F. Q. C. Gardner, West Point, 1904. Both officers have been connected with the Coast Artillery Corps, Captain Canfield being stationed at Puget Sound and Lieutenant Gardner at Fortress Monroe. Both men will pursue a special course in electrical engineering.

THE council of the University of Paris has sanctioned a scheme for an exchange of students between the universities of Paris and London.

THE Veterinary School of Lyons, France, said to be the oldest in the world, will celebrate the hundred and fiftieth anniversary of its foundation next May.

DR. CLYDE A. DUNIWAY, of the University of Montana, has been informed by the Board of Control that he will not be reappointed as president of the university. It is understood that this action has been taken because President Duniway refused to appoint a local politician as dean of the law school of the university.

#### DISCUSSION AND CORRESPONDENCE

WHAT IS BIOLOGY AND WHAT IS A "BIOLOGICAL SURVEY"?

THE occasion for the present note is found in the recent publication of "A Biological Survey of Colorado."<sup>1</sup> Probably most students of plants and animals have long wished that the word "biology" had never been coined. It is so often misunderstood by the non-scientific person. In the days of the old taxonomy and of the former rigid morphology there were few people really interested in both plants and animals. With the advent of ecology, and more recently of genetics, botanists and zoologists have been brought together and

<sup>1</sup> Issued as "North American Fauna," No. 33, as a publication of the Bureau of Biological Survey, Washington, 1911. The author, Merritt Carey, is stated to be "Assistant Biologist, Biological Survey."